



BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BEST PROJECTS 2019-20

SL No	Title of the Project	Project Description (not more than 250 Words)	Academic Year	Student Names	Guide Name
4	"An approach to smart street using IOT applications"	The primary aim of smart street lights system is to conserve electricity by reducing the wastage of electricity which in turn helps in reducing the manpower. In a manual street light system, the street lights are switched on with full intensity from sunset to sunrise. There is no variation in intensity even when it is not needed. Hence electricity is wasted. This can be avoided by installing a smart street lighting system which can detect when to increase the intensity or completely turn off the lights. This can be achieved with the help of light dependent resistors (LDR) which varies the light as per illumination required. Smart street lights can also serve many other purposes. This system is also equipped with a depth sensor (ultrasonic sensor) which can detect flooding in the streets and send data regarding this to a server which can in turn warn the vehicles intending to travel through that area. This would help in preventing accidents. This system is also equipped with a humidity and temperature sensor which senses, measures and reports both moisture and air temperature and is displayed on the LCD screen mounted on the pole. The temperature and humidity can also be monitored	2019-20	Mr. Nikhil	Prof Swetha M S

		remotely through blynk application. The system is also equipped with MQ7 sensor, it is a simple-to-use Carbon Monoxide (CO) sensor suitable for sensing CO concentrations in the air. It can detect CO-gas concentrations anywhere from 20 to 2000ppm. MQ7 is a high sensitivity to carbon monoxide and stable and long-life span. The system will send alert notification via ESP Wi-Fi Module if it senses harmful gases in the air.			
5	Cognitive base Data classification and Data Embedding in Image Steganography using M L Algorithms.	The aim of the project is to develop a system capable of storing the biometrics of Aadhar card holders securely in the database by encrypting and then embedding the biometrics data of the card holder with the photo of him/her. Embedding Data using Cognitive technique refers to the techniques and processes used to secure the biometric images of the Aadhar card holder in the database which can be used for purposes such as ID proof, bank transactions and KYC linkage. Aadhar information in India is one of the most copious. Securing large amount of data is one of the most challenging tasks that our country is facing. Because of the vast usage of Aadhar information across the country, it can lead to a lot of data misuse	2019-20	Ms.Yashaswini S	Dr. Usha B A
6	Student Academic Performance Analysis using RPA	Most of the educational institutions have a manual process of analyzing student data to arrive at a proper decision about the student performance. To address the manual process of extraction and reduce the manpower of extraction and to reduce the manpower involved, we attempted to use RPA (Robotic Process Automation) which generates the reports and automates the entire process of data extraction and report generation and building the logic is per the end user requirement. We	2019-20	Ms.DIVYATHA S PRABHU	Dr. Manjunath T N

		<p>are using automation anywhere frame work to design the software bot which does the same effective when composed to manual process. This has always been an extensive process requiring time and manpower in abundance and the resultant reports proves to insufficient in terms of the data required to arrive at a decision. Student Academic Performance Analysis is the act of collecting data through extraction process of required data. It is done in order to understand the quality and quality of students that are performing and categorized the same for further study as well as conduct analysis of the skill set in order to categorize them on basis of the improvement required to enhance the productivity of the current as well as future students</p>			
7	Hunger Saviour A food wastage minimization solution	<p>The main objective of this project “Hunger Saviour – A Food Wastage Minimization Solution” is to create a full-fledged website and a mobile application from which a restaurant or a donor could log in and notify the organization that they have excess food available. This shall notify all the nearby volunteers and also connect all the available volunteers to each other for ease of communication during transportation and distribution. The food is distributed to the cluster which houses the needy people of society. This would ensure that minimal time is utilized which would have caused the food to go to waste. This platform lets the organization keep track of its donors and volunteers.</p>	2019-20	Mr. Adithya S Vasisth	Prof. Swetha M S